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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/827,888	04/06/2001		Chung Liu	PALM-3588.US.P	5564	
49637	7590	09/07/2005		EXAM	EXAMINER	
BERRY & ASSOCIATES P.C.				WU, QING YUAN		
9255 SUNSET BOULEVARD SUITE 810				ART UNIT	PAPER NUMBER	
LOS ANGE	ELES, CA	90069		2194		
				DATE MAILED: 09/07/200:	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/827,888	LIU ET AL.	
Office Action Summary	Examiner	Art Unit	
•	Qing-Yuan Wu	2194	
The MAILING DATE of this communication a			
eriod for Reply		•	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may eply within the statutory minimum of the od will apply and will expire SIX (6) Mo oute, cause the application to become	n reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	1.
Status		·	
1)⊠ Responsive to communication(s) filed on 8/3	3/05.		
· /= ·	nis action is non-final.		
3)☐ Since this application is in condition for allow		tters, prosecution as to the merits is	;
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C	D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>29-53</u> is/are pending in the applicat	tion.		
4a) Of the above claim(s) is/are withdown			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>29-53</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	l/or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10)⊠ The drawing(s) filed on <u>06 April 2001</u> is/are:	a)⊠ accepted or b)□ obj	ected to by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	•	• • • • • • • • • • • • • • • • • • • •	<b>i)</b> .
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume	ents have been received in	Application No	
<ol><li>Copies of the certified copies of the pr</li></ol>	· ·	n received in this National Stage	
application from the International Bure	` ','		
* See the attached detailed Office action for a li	st of the certified copies no	t received.	
		·	
ttachment(s)			
	🗖	Summary (PTO-413)	
Notice of References Cited (PTO-892)			
<ul> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date</li> </ul>	Paper No	r(s)/Mail Date Informal Patent Application (PTO-152)	

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#### **DETAILED ACTION**

1. Claims 29-53 are pending in the application.

### Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 33, 42 and 50 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - a. The following claim language is indefinite:
  - i. As per claim 33, it is uncertain whether "the first currently executed program" in line 3 refers to "a first currently executing program" in claim 29, line 10 (i.e. if they are the same then "said" or "the" should be used and "the first currently executing program" must be used throughout all the claims). Claims 42 and 50 are rejected for similar reason.

#### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 29-30, 32-33, 35-39, 41-42, 44-47, 49-50 and 52-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kusano (U.S. Paten 5,796,397), in view of Song et al (hereafter Song) (U.S. Patent 6,061,711).

- 6. Song was cited in the previous office action.
- 7. As to claim 29, Kusano teaches the invention substantially as claimed including a method of performing task switching in a portable processing device, the method comprising:

receiving an indication from a user of a desire to perform a task switch on the portable processing device [abstract; col. 2, lines 9-14];

displaying a task switching menu listing a plurality of programs installed on the portable processing device that are useful to execute based at least partly on a currently executing program [col. 2, lines 14-19, 53-55; col. 5, lines 33-35; Fig. 7];

receiving a selection from the user of one of the displayed useful ones of the plurality of programs installed on the portable processing device [col. 6, lines 47-55; Fig. 8].

8. Kusano does not specifically teach listing <u>only</u> ones of a plurality of programs installed on the portable processing device that are useful. However, Kusano disclosed input items that have no matching items in the new application could be re-used [col. 10, lines 24-27]. It would have been obvious to one of an ordinary skill in the art at the time the invention was made, to have modified the teaching of Kusano to list <u>only</u> ones of a plurality of programs installed on the

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portable processing device that are useful to create a more efficient menu that avoid fruitless attempts that would yield non-matching items as implied by Kusano (i.e. not listing a clock, a calculator, etc. as displayed in Fig. 3 in the switch to application type of Fig. 7).

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- 9. Furthermore, Kusano does not specifically teach context switching as recited. However, Song teaches storing a program state of a first currently executing program into a first context packet [Song, abstract; col. 2, lines 32-34], suspending execution of the first currently executing program [Song, abstract, lines 1-4, 7-11], and executing the selected one of a plurality of programs [Song, abstract, lines 3-4; col. 10, lines 60-61; col. 13, lines 35-50; 624, Fig. 6].
- 10. It would have been obvious to one of an ordinary skill in the art at the time the invention was made, to have combined the teaching of Kusano with the teaching of Song, because the teaching of Song enhances the task switching capability of Kusano by providing the ability to switch between different programs and to return to the point where the user left off in the currently activated program [Song, abstract].
- 11. As to claim 30, Kusano as modified teach the invention substantially as claimed including wherein the task switching menu is a pull-down menu [Fig. 7; col. 3, lines 35-36; col. 5, line 34].

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- 12. As to claim 32, Kusano as modified teach the invention substantially as claimed including restoring a stored program state of the selected one of the displayed useful ones of the plurality of programs installed on the portable processing device from a second context packet before executing the selected one of the displayed useful ones of the plurality of programs installed on the portable processing device [Song, col. 13, line 40 to col. 14, line 7].
- 13. As to claim 33, this claim is rejected for the same reason as claims 29 and 32 above.
- 14. As to claim 35, this claim is rejected for the same reason as claim 29 above.
- 15. As to claims 36-37, Kusano as modified does not specifically teach providing a context packet control panel to permit the user to set at least one parameter that affects context packets, and to manage an amount of memory used by the context packets. However, Song disclosed that an application programmer could choose an appropriate point at a location in the executing program that requires preserving a minimal portion of the processor information across a context switch [Song, abstract, lines 20-30; col. 2, lines 16-21]. It would have been obvious to one of an ordinary skill in the art at the time the invention was made, to have recognized that the size of the context packets can vary based on a parameter chosen by the user as being considered by Kusano as modified.

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16. As to claim 38, this claim is rejected for the same reason as claim 29 above. In addition, Kusano as modified teach the invention substantially as claimed including a portable processing device comprising:

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at least on processor [5, Fig. 1; 13, Fig. 2];
a display device [4, Fig. 1; 11, 16, Fig. 2];
an input device [1, Fig. 1; 15, 16, Fig. 2];
a memory [1, 3, 6, Fig. 1; 12, 14, Fig. 2]; and
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a bus connecting the at least on processor, the display device, the input device, and the memory [col. 4, lines 7-48; Figs. 1-2].

- 17. As to claims 39, 41-42 and 44-45, these claims are rejected for the same reason as claims 30, 32-33 and 36-37 above.
- 18. As to claims 46-47, 49-50 and 52-53, these claims are rejected for the same reason as claims 29-30, 32-33 and 36-37 above.
- 19. Claims 31, 40 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kusano and Song as applied to claims 29, 38 and 46 above, in view of Bodin et al (hereafter Bodin) (U.S. Patent 5,675,762).
- 20. Bodin was cited in the previous office action.

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21. As to claim 31, Kusano and Song do not specifically teach releasing temporary memory used by the first currently executing program. However, Bodin teach the releasing of memory used by a currently running program when the currently running program is switch to the background [Bodin, col. 6, lines 44-47, col. 2, lines 49-52, 420, Fig, 5]. It would have been obvious to one of an ordinary skill in the art at the time the invention was made, to have combined the teaching of Kusano, Song and Bodin because Bodin's method of releasing memory of currently running program would improve the transparency and throughput of Kusano and

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22. As to claims 40 and 48, these claims are rejected for the same reason as claim 31 above.

Song's system by allowing re-use of memory once the context switching is performed.

- Claims 34, 43 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kusano and Song as applied to claims 29, 38 and 46 above, in view of Applicant Admitted Prior Art (hereafter AAPA).
- As to claim 34, Kusano and Song do not specifically teach executing a non-multitasking operating system on the portable processing device. However, AAPA disclosed that palmtop or telephone applications lack a multitasking operating system [AAPA, pg. 4, lines 14-16]. It would have been obvious to one of an ordinary skill in the art at the time the invention was made, to have combined the teaching of Kusano, Song and AAPA because the teaching of Kusano and Song would improve the teaching of AAPA by providing an efficient context saving

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mechanism that minimized the utilization of limited resources [Song, abstract; AAPA, pg. 3, lines 17-18; pg, 8, line 4].

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- 25. As to claims 43 and 51, these claims are rejected for the same reason as claim 34 above.
- 26. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- U.S. Patent 6,727,917 to Chew et al teaches a pull down menu for switching applications in a hand-held computing device.

## Response to Arguments

- Applicant's arguments filed 8/3/05 have been fully considered but are moot in view of the new ground(s) of rejection.
- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on

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the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the date of this final action.

29. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Qing-Yuan Wu whose telephone number is (571) 272-3776. The

examiner can normally be reached on 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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Qing-Yuan Wu

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Examiner

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SORY PATENT EXAMINER

TOWN'OLOGY CELL